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## NOTICE OF ALLOWANCE AND FEE(S) DUE

53609

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03/20/2008

REINHART BOERNER VAN DEUREN P.C. 2215 PERRYGREEN WAY ROCKFORD, IL 61107 EXAMINER

LEE, Y MY QUACH

ART UNIT PAPER NUMBER

2885 DATE MAILED: 03/20/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583.875	06/21/2006	Nigel C. Savage	505473	8992

TITLE OF INVENTION: UNDERWATER LIGHTING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	06/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	ll be i and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOI	RNEY DOCKET NO.	CONFIRMATION NO.
10/583,875	06/21/2006	•	Nigel C. Savage	505473		505473	8992
TITLE OF INVENTION	: UNDERWATER LIGH	ITING APPARATUS					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0		\$1020	06/20/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
LEE, Y MY	-	2885	362-101000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.	ondence address (or Chai 3/122) attached. ication (or "Fee Address' 2 or more recent) attach	Indication form ed. Use of a Customer	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornisted, no name will be THE PATENT (print or typedata will appear on the product of the part of th	rely, e firm (having as a gent) and the name riety or agents. If n printed.	membe s of up o name	er a 2 o to e is 3	ocument has been filed for
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	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long				
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Authorized Signature				Date			
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This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450, Alexandria. V	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 m idual case. Any cor r, U.S. Patent and T D THIS ADDRESS.	e publinutes inutes nments radem SENI	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete attment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/583,875	06/21/2006	Nigel C. Savage	505473	8992	
53609 75	590 03/20/2008	EXAMINER			
REINHART BO	ERNER VAN DEUR	LEE, Y M	Y QUACH		
2215 PERRYGREEN WAY			ART UNIT	PAPER NUMBER	
ROCKFORD, IL 6	51107		2885		
			DATE MAILED: 03/20/2008		

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 168 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 168 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	_
	10/583,875	SAVAGE, NIGEL C.	
Notice of Allowability	Examiner	Art Unit	_
	Y M. Lee	2885	
	Y M. Lee	2885	_
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is s	this application. If not included nication will be mailed in due course. <b>THIS</b>	
1. $\boxtimes$ This communication is responsive to $2/13/08$ .			
2. The allowed claim(s) is/are <u>1-20</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		or (f).	
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Applicatio	n No	
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			
5. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	-	v ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 ☐ Notice of Int	ormal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./	Mail Date Amendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit	8. 🔲 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other	<u>.</u>	
	/Y M. Lee/ Primary Examiner,	Art Unit 2885	

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Art Unit: 2885

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the Claim:

Claim 15. Line 6, "a" has been changed to --the-- (note "the back wall of the housing on line 3 of claim 13).

The reference numeral "35" is included in drawing figure 9 of preliminary of June 21, 2006, objection to the drawings regarding not including "a plate of thermally conductive metal inside the housing and in thermal contact with the housing in the office action of February 5, 2008 is therefore withdrawn.

Mohacsi is listed in the attached 892 form as it was inadvertently not included in the previous 892 form of February 5, 2008.

Claim 1 is allowed because the prior art individually or in combination does not teach the combination of an underwater lighting unit comprising an array of light emitting diodes mounted against a wall of a thermally conductive housing, a clear transparent material collimator in front of each of the diodes, a transparent screen aligned across front faces of the collimators and in contact with the front faces and the transparent screen being sealingly edge mounted in a peripheral recess around walls of the housing with at least a portion of the walls of the housing being in direct heat exchange contact with water in which the lighting unit is submerged. Claims 2 to 10 further limit claim 1 and as such are also allowed.

Claim 11 is allowed because the prior art individually or in combination does not teach the combination of an underwater lighting unit comprising an array of light emitting diodes mounted against a wall of a thermally conductive housing, a conical or pyramidal clear transparent material collimator in front of each of the diodes, a transparent screen aligned across front faces of the collimators and in contact with the front faces and the transparent screen being sealingly edge mounted in a peripheral recess around side wall or walls of the housing with at least a portion of the walls of the housing being in direct heat exchange contact with water in

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Art Unit: 2885

which the lighting unit is submerged. Claims 12 to 17 further limit claim 11 and as such are also allowed.

Claim 18 is allowed because the prior art individually or in combination does not teach the combination of an underwater lighting unit comprising an array of light emitting diodes mounted against a wall of a thermally conductive housing, a clear transparent material collimator in front of each of the diodes, a transparent screen aligned across front faces of the collimators and being sealingly edge mounted in a peripheral recess around side wall or walls of the housing with at least a portion of the walls of the housing being in direct heat exchange contact with water in which the lighting unit is submerged. Claims 19 and 20 depend on allowed claim 18 and as such are also allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y Quach Lee whose telephone number is 571-272-2373. The examiner can normally be reached on Monday to Thursday from 8:30 am to 2:30 pm.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service 571-272-2815.

Y. Q. March 10, 2007

/Y M. Lee/ Primary Examiner, Art Unit 2885